5 A CATALYST COMPOSITION, A PROCESS FOR PREPARING THE CATALYST COMPOSITION AND A USE OF THE CATALYST COMPOSITION

ABSTRACT

10 A catalyst composition comprising a support having a surface area of at least $500 \text{ m}^2/\text{kg}$, and deposited on the support:

silver metal,

a metal or component comprising rhenium, tungsten,

15 molybdenum or a nitrate- or nitrite-forming compound, and

a Group IA metal or component comprising a Group IA metal having an atomic number of at least 37, and in addition potassium,

wherein the value of the expression $(Q_K / R) + Q_{HIA}$ is in the range of from 1.5 to 30 mmole/kg, wherein Q_{HIA} and Q_K represent the quantities in mmole/kg of the Group IA metal having an atomic number of at least 37 and potassium, respectively, present in the catalyst composition, the ratio of Q_{HIA} to Q_K is at least 1:1, the value of Q_K is at least 0.01 mmole/kg, and R is a dimensionless number in the range of from 1.5 to 5, the units mmole/kg being relative to the weight of the catalyst composition.